
















## EAST Search History

| Ref # | Hits  | Search Query                                  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|---|------------------|---------|------------------|
| L1    | 148   | (foreign adj agent\$3) and proxy and relay\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:35 |
| L2    | 38    | @ad<"20010404" and 1                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:39 |
| L5    | 2367  | (encapsulat\$5 uncapsulat\$5 ) adj2 ip        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:37 |
| L6    | 14    | 5 and 2                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:39 |
| L7    | 193   | decapsulat\$5 adj2 ip                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:39 |
| L8    | 4     | (decapsulat\$5 and capsulat\$5) adj2 ip       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:39 |
| L9    | 0     | @ad<"20010404" and 1 and 8                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:39 |
| L10   | 10871 | ((370/338,349,401,328)).CCLS.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/06/23 18:40 |

## EAST Search History

|     |      |                       |   |    |     |                  |
|-----|------|-----------------------|---|----|-----|------------------|
| L11 | 2317 | (455/456.1,435).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/23 18:40 |
| L12 | 2582 | (709/238).CCLS.       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/23 18:41 |
| L13 | 0    | 10 and 11 and 12      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/23 18:41 |
| L14 | 56   | (10 11 12) and 1      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/23 18:42 |
| L15 | 20   | (10 11 12) and 2      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/06/23 18:42 |



- 4 A public-key based secure mobile IP   
John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent  
October 1999 **Wireless Networks**, Volume 5 Issue 5  
**Publisher:** Kluwer Academic Publishers  
Full text available:  [pdf\(255.65 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 5 Mobility support using SIP   
 Elin Wedlund, Henning Schulzrinne  
August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**  
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- 7 MRSVP: a resource reservation protocol for an integrated services network with mobile hosts   
Anup Kumar Talukdar, B. R. Badrinath, Arup Acharya  
January 2001 **Wireless Networks**, Volume 7 Issue 1  
**Publisher:** Kluwer Academic Publishers  
Full text available:  [pdf\(259.27 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- Keywords:** integrated services, internet protocols, mobility, multimedia, quality of service, reservation protocol
- 8 Mobile IP   
 Debalina Ghosh  
December 2000 **Crossroads**, Volume 7 Issue 2  
**Publisher:** ACM Press  
Full text available:  [html\(49.21 KB\)](#) Additional Information: [full citation](#), [index terms](#)
- 9 Mobile networking in the Internet   
Charles E. Perkins  
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4  
**Publisher:** Kluwer Academic Publishers  
Full text available:  [pdf\(166.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol

research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

#### 10 IP micro-mobility protocols



Andrew T. Campbell, Javier Gomez-Castellanos

October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

#### 11 Challenges for nomadic computing: mobility management and wireless communications

Thomas F. La Porta, Krishan K. Sabnani, Richard D. Gitlin

August 1996 **Mobile Networks and Applications**, Volume 1 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(321.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present several challenges and innovative approaches to support nomadic computing. The nomadic computing environment is characterized by mobile users that may be connected to the network via wired or wireless means, many of whom will maintain only intermittent connectivity with the network. Furthermore, those accessing the network via wireless links will contend with limitations of the wireless media. We consider three general techniques for addressing these challenges: (1 ...

#### 12 A multicast-based protocol for IP mobility support



Ahmed Helmy

November 2000 **Proceedings of NGC 2000 on Networked group communication**

**Publisher:** ACM Press

Full text available: pdf(1.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

*Several architectures have been recently proposed to support IP mobility. Most studies, however, show that current protocols, in general, fall short from satisfying the performance requirements for audio applications. In this study, we propose a multicast-based protocol to reduce latency and packet loss during handoff and provide the base for IP mobility support. We use extensive simulation to evaluate our protocol's performance over a variety of real and generated topologies, and we compa ...*

**Keywords:** efficient handoff, mobility, multicast, network simulation

#### 13 Mobility support in IPv6



Charles E. Perkins, David B. Johnson

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

**Publisher:** ACM Press

Full text available: pdf(1.37 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Fast and scalable wireless handoffs in supports of mobile Internet audio**

Ramón Cáceres, Venkata N. Padmanabhan

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(187.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the I ...

**15 Secure and mobile networking**

Vipul Gupta, Gabriel Montenegro

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(223.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The IETF Mobile IP protocol is a significant step towards enabling nomadic Internet users. It allows a mobile node to maintain and use the same IP address even as it changes its point of attachment to the Internet. Mobility implies higher security risks than static operation. Portable devices may be stolen or their traffic may, at times, pass through links with questionable security characteristics. Most commercial organizations use some combination of source-filtering routers, sophisticate ...

**16 Scalable support for transparent mobile host internetworking**

David B. Johnson

August 1995 **Wireless Networks**, Volume 1 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper considers the problem of providing transparent support for very large numbers of mobile hosts within a large internetwork such as the Internet. The availability of powerful mobile computing devices and wireless networking products and services is increasing dramatically, but internetworking protocols such as IP used in the Internet do not currently support host movement. To address this need, the Internet Engineering Task Force (IETF) is currently developing protocols for mobile ...

**17 Fast and scalable handoffs for wireless internetworks**

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November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking****Publisher:** ACM PressFull text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18 Location update and routing scheme for a mobile computing environment**

Anna Hać, Yujing Huang

July 2000 **International Journal of Network Management**, Volume 10 Issue 4**Publisher:** John Wiley & Sons, Inc.Full text available:  [pdf\(332.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a new hierarchical location update and routing scheme for a wide area mobile computing environment with scalability of network hierarchy. Our scheme provides nearly optimal routing for most communication bypassing the mobile host's home network and home agent. We use simulation to compare our scheme with other schemes in both

non&hyphen;hierarchical and hierarchical network architectures. Copyright © 2000 John Wiley & Sons, Ltd.

19 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(403.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 Mobile IP and the IETF



Charles E. Perkins

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(645.70 KB) Additional Information: [full citation](#), [index terms](#)



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<sup>1</sup> A public-key based secure mobile IP

John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent

October 1999 **Wireless Networks**, Volume 5 Issue 5

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2 MRSVP: a resource reservation protocol for an integrated services network with mobile hosts

Anup Kumar Talukdar, B. R. Badrinath, Arup Acharya

January 2001 **Wireless Networks**, Volume 7 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(259.27 KB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)


**Keywords:** integrated services, internet protocols, mobility, multimedia, quality of service, reservation protocol

### 3 Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(166.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

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Elin Wedlund, Henning Schulzrinne

August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**

**Publisher:** ACM PressFull text available:  [pdf\(711.48 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**5** A public-key based secure mobile IP 

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September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking****Publisher:** ACM PressFull text available:  [pdf\(1.95 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)**6** Mobile IP 

Debalina Ghosh

December 2000 **Crossroads**, Volume 7 Issue 2**Publisher:** ACM PressFull text available:  [html\(49.21 KB\)](#) Additional Information: [full citation](#), [index terms](#)**7** Scalable support for transparent mobile host internetworking 


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**8** Secure and mobile networking 

Vipul Gupta, Gabriel Montenegro

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The IETF Mobile IP protocol is a significant step towards enabling nomadic Internet users. It allows a mobile node to maintain and use the same IP address even as it changes its point of attachment to the Internet. Mobility implies higher security risks than static operation. Portable devices may be stolen or their traffic may, at times, pass through links with questionable security characteristics. Most commercial organizations use some combination of source-filtering routers, sophisticate ...

**9** Internet mobility 4x4 

Stuart Cheshire, Mary Baker

August 1996 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96**, Volume 26 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(208.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile IP protocols allow mobile hosts to send and receive packets addressed with their home network IP address, regardless of the IP address of their current point of

attachment in the Internet. While some recent work in Mobile IP focuses on a couple of specific routing optimizations for sending packets to and from mobile hosts [Joh96] [Mon96], we show that a variety of different optimizations are appropriate in different circumstances. The best choice, which may vary on a connection-by-connection basis, is ...

#### 10 HMIPv6: A hierarchical mobile IPv6 proposal



Claude Castelluccia

January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(1.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IPv6 protocol has been developed to manage global (macro) mobility. It is not adapted to local (micro) mobility since it does not support any kind of hierarchy. This paper presents a hierarchical protocol, built on top of Mobile IPv6, that separates local mobility (within a site) from global mobility (across sites) management. Local handoffs are managed locally and transparently to a mobile node's correspondent hosts while global mobility is managed with Mobile IPv6. Our scheme i ...



#### 11 Mobile IP and the IETF



Charles E. Perkins

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(645.70 KB\)](#) Additional Information: [full citation](#), [index terms](#)



#### 12 Intelligent handoff for mobile wireless internet

Jon Chung-Shien Wu, Chieh-Wen Cheng, Gin-Kou Ma, Nen-Fu Huang

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available: [pdf\(223.56 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



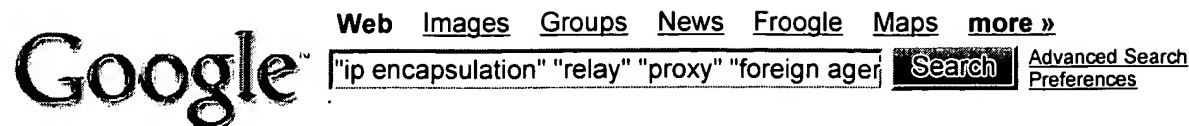
**Keywords:** mobile internet, wireless data networks, wireless internet

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## Web

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### Cisco Mobile Wireless Home Agent, Release 3.0 [Cisco Mobile ...

Protects data flow between home agent and PDSN or **foreign agent** ... agent in the Mobile IP case) or from the **foreign agent** (in the **proxy** Mobile IP case) ...

[www.cisco.com/en/US/products/ps5940/products\\_data\\_sheet0900aecd8042bcf9.html](http://www.cisco.com/en/US/products/ps5940/products_data_sheet0900aecd8042bcf9.html) - 95k

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### Cisco Packet Data Serving Node (PDSN) Data Sheet, Release 3.0 ...

**Foreign agent**-home agent authentication. • IP-in-IP **encapsulation**, RFC 2003 ... and for Mobile IP or **proxy** Mobile IP users, inter-PDSN hand-off ...

[www.cisco.com/en/US/products/sw/wirelssw/ps4341/products\\_data\\_sheet0900aecd8041b2c9.html](http://www.cisco.com/en/US/products/sw/wirelssw/ps4341/products_data_sheet0900aecd8041b2c9.html) - 99k - [Cached](#) - [Similar pages](#)

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### Network Working Group C. Perkins, Editor Request for Comments ...

If the mobile node is requesting service from a **foreign agent**, that **foreign agent** will receive the Reply from the home agent and subsequently **relay** it to ...

[www.ietf.org/rfc/rfc2002.txt](http://www.ietf.org/rfc/rfc2002.txt) - 190k - [Cached](#) - [Similar pages](#)

### Network Working Group C. Perkins, Ed. Request for Comments: 3344 ...

If not, the **foreign agent** then **MUST relay** the Request to the indicated home agent. ... The mobile node wishes only IP-in-IP **encapsulation**, does not want ...

[www.ietf.org/rfc/rfc3344.txt](http://www.ietf.org/rfc/rfc3344.txt) - 236k - [Cached](#) - [Similar pages](#)

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## RFC's

**Foreign Agent** • Format • FP • Fragment • fragments • Frame • Frame **Relay** ... RFC2607:

**Proxy** Chaining and Policy Implementation in Roaming. ...

[coders.meta.net.nz/~perry/rfc/keyword.html](http://coders.meta.net.nz/~perry/rfc/keyword.html) - 977k - [Cached](#) - [Similar pages](#)

### esp@cenet description view

A client operating without a **Foreign Agent** is said to be in co-located mode. ... traversal of firewalls and VPN gateways using a **relay** or **proxy** server; ...

[v3.espacenet.com/textdes?IDX=EP1381202&RPN=WO0242861&QPN=WO0242861](http://v3.espacenet.com/textdes?IDX=EP1381202&RPN=WO0242861&QPN=WO0242861) - 47k

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## IP Mobility

In this foreign network, it may obtain help from a **foreign agent**. ... They must all support the basic "IP-in-IP" **encapsulation**, but they may additionally ...

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### [PDF] A Home-Proxy Based Wireless Internet Framework in Supporting ...

File Format: PDF/Adobe Acrobat

and tunnelling them to a **foreign agent** (FA) at the sub-. net the MH is visiting. ... in-IP **encapsulation**, because the insertion of a tunnel ...

[www.cs.usyd.edu.au/~bjornl/research/papers/ieice\\_published.pdf](http://www.cs.usyd.edu.au/~bjornl/research/papers/ieice_published.pdf) - [Similar pages](#)

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**proxy** agent 153. redirect agent 153. **relay** agent 142, 153. translation agent 153, 166, ... IP in IP **encapsulation** 100. IPsec. AH, see Authentication header ...

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[\(PDF\) On using Mobile IP Protocols](#)

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**foreign agent** will receive the reply and **relay** it to the. mobile node. The reply message is shown ... datagram using IP within **IP encapsulation**, an outer IP ...  
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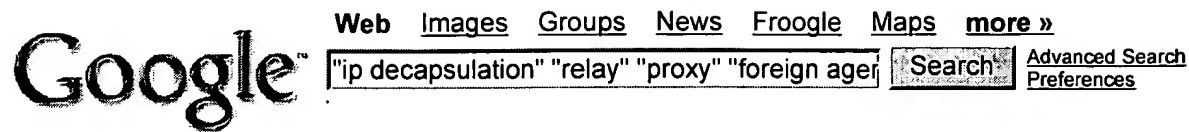
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## Web

Results 1 - 6 of about 11 for "**ip decapsulation**" "**relay**" "**proxy**" "**foreign agent**". (0.52 seconds)

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The following paper was originally published in the Proceedings of ...

Although a full **foreign agent** is expected to do more, the protocol only requires it to **relay** registration requests (change-of-location notifications) from ...

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Although a full **foreign agent** is expected to do more, the protocol only requires it to **relay** registra- tion requests (change-of-location notifications) ...

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[mobileip-minutes-96mar.html](#)

motion detection; c/o address construction; **IP decapsulation** (of packets from ... IPv4 enforces the use of an explicit FA to **relay** registration messages by ...

[www3.ietf.org/proceedings/96mar/area.and.wg.reports/rtg/mobileip/mobileip-minutes-96mar.html](http://www3.ietf.org/proceedings/96mar/area.and.wg.reports/rtg/mobileip/mobileip-minutes-96mar.html) - 22k - [Cached](#) - [Similar pages](#)

[PDF] [Low-Latency Handoff for Cellular Data Networks by Srinivasan ...](#)

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responds to a **foreign agent** (FA), it must decapsulate the packet and ... When a mobile host is away from its home locations, a home agent uses the **proxy** ARP ...

[www.sigmobile.org/phd/9495/theses/seshan.pdf](http://www.sigmobile.org/phd/9495/theses/seshan.pdf) - [Similar pages](#)

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o registers its co-located or **foreign agent** care-of address with the external home agent; ... **IP-IP decapsulation** + subsequent IPsec SA application may not ...

[tools.ietf.org/pdf/draft-ietf-mobileip-vpn-problem-solution-01.pdf](http://tools.ietf.org/pdf/draft-ietf-mobileip-vpn-problem-solution-01.pdf) - [Similar pages](#)

[wdiff draft-ietf-mobileip-vpn-problem-solution-00.txt draft-ietf ...](#)

18 2.10 Use **Foreign Agent** to route ESP 25 6. Analysis . ... **IP-IP decapsulation** + subsequent IPsec SA application may not be easy in all VPN architectures. ...

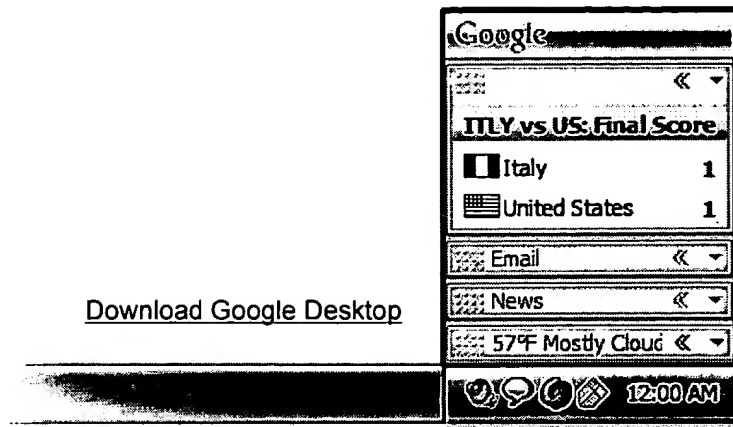
[tools.ietf.org/.../draft-ietf-mobileip-vpn-problem-solution-01-from-00.wdiff.html](http://tools.ietf.org/.../draft-ietf-mobileip-vpn-problem-solution-01-from-00.wdiff.html) - 135k - [Cached](#) - [Similar pages](#)

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